

**FIG. 1**

TYPE OF LEAD- ACID BATTERY PLATE PASTE MIX	LEAD OXIDE	MICRONIZED TTBLS ADDITIVE	WATER	SULFURIC ACID	FLOCK	EXPANDER
AUTOMOTIVE POSITIVE PLATE PASTE	1071 KG (79.52% WEIGHT)	10.71 KG (0.79% WEIGHT)	140 KG (10.39% WEIGHT)	125 KG (9.28% WEIGHT)	0.5 KG (0.02% WEIGHT)	0 0
AUTOMOTIVE BATTERY NEGATIVE PASTE	1071 KG (78.30% WEIGHT)	10.71 KG (0.79% WEIGHT)	140 KG (10.23% WEIGHT)	135 KG (9.86% WEIGHT)	0.5 KG (0.03% WEIGHT)	10.71 KG (0.79% WEIGHT)
INDUSTRIAL POSITIVE PLATE PASTE	1071 KG (80.09% WEIGHT)	10.71 KG (0.80% WEIGHT)	135 KG (79.52% WEIGHT)	120 KG (8.98% WEIGHT)	0.5 KG (0.04% WEIGHT)	0 0
INDUSTRIAL BATTERY NEGATIVE PASTE	1071 KG (79.41% WEIGHT)	10.71 KG (0.79% WEIGHT)	130 KG (9.64% WEIGHT)	115 KG (8.53% WEIGHT)	0.5 KG (0.04% WEIGHT)	21.4 KG (1.59% WEIGHT)

FIG. 2A

EFFECT OF 1% TTBLs ON INDUSTRIAL PASTE AND PLATE CURING — 1ST SAMPLE

CONTROL SAMPLES					
SAMPLE	TRIAL	A-PBO (TETRA)	B-PBO (ORTHO)	TETRABASIC	TRIBASIC
PASTE AT END OF MIXING	1	58.0	2.6	0.0	39.4
	2	51.1	7.9	0.0	40.9
	3	59.4	2.2	1.2	37.2
	4	66.4	2.1	0.0	31.5
	5	50.2	1.1	2.4	46.3
	AVG	57.0	3.2	0.7	39.1
PASTE PLATE AT END OF TUNNEL DRYER	1	66.7	1.9	0.0	31.4
	2	59.2	8.5	5.7	26.6
	3	55.9	5.5	10.6	28.1
	4	61.8	4.8	2.1	31.3
	5	60.8	3.2	6.9	29.1
	AVG	60.9	4.8	5.1	29.3
PLATES AFTER 3 HOURS CURING	1	57.5	9.7	0.5	32.3
	2	61.2	10.7	0.0	28.8
	3	60.7	8.7	2.1	28.5
	4	60.4	9.8	1.0	28.7
	5	58.7	5.3	2.9	33.1
	AVG	59.7	8.8	1.3	30.3
PLATES AFTER 6 HOURS CURING	1	52.0	4.4	1.8	41.8
	2	57.1	9.1	0.0	33.7
	3	59.6	2.4	0.9	37.1
	4	54.4	8.2	1.6	35.8
	5	57.2	7.5	2.7	32.6
	AVG	56.1	6.3	1.4	36.2
PLATES AFTER 9 HOURS CURING	1	52.6	4.3	1.5	41.6
	2	67.7	2.3	1.9	28.2
	3	63.6	6.9	1.9	27.6
	4	60.2	10.4	2.3	27.2
	5	61.6	3.2	1.9	33.3
	AVG	61.1	5.4	1.9	31.6
PLATES AFTER 12/13 HOURS CURING	1	30.2	1.7	68.1	0.0
	2	59.1	10.3	4.6	26.0
	3	59.8	2.1	14.2	23.9
	4	64.9	2.3	11.0	21.8
	5	53.9	4.3	9.3	32.4
	AVG	53.6	4.8	21.4	26.0

FIG. 2B

EFFECT OF 1% TTBLs ON INDUSTRIAL PASTE AND PLATE CURING — 1ST SAMPLE

EXPERIMENTAL SAMPLES					
SAMPLE	TRIAL	A-PBO (TETRA)	B-PBO (ORTHO)	TETRABASIC	TRIBASIC
PASTE AT END OF MIXING	1	38.5	0.0	51.7	9.8
	2	34.1	0.7	57.7	7.5
	3	36.1	0.0	58.3	5.5
	4	40.2	0.0	55.1	4.7
	5	34.5	1.2	59.5	4.8
	AVG	36.7	0.4	56.5	6.5
PASTE PLATE AT END OF TUNNEL DRYER	1	81.9	8.1	10.1	0.0
	2	45.2	2.1	27.4	25.3
	3	44.1	1.6	29.9	23.9
	4	43.8	1.2	43.0	11.9
	5	48.6	3.4	19.5	28.5
	AVG	52.7	3.3	26.0	17.9
PLATES AFTER 3 HOURS CURING	1	26.2	2.2	71.6	0.0
	2	20.8	4.3	71.5	3.4
	3	34.6	3.4	57.4	4.6
	4	24.1	3.4	66.7	5.8
	5	36.9	1.9	51.3	10.0
	AVG	28.5	3.0	63.7	4.8
PLATES AFTER 6 HOURS CURING	1	25.3	2.9	71.8	0.0
	2	19.4	5.5	72.6	2.5
	3	31.0	2.0	67.0	0.0
	4	28.1	1.4	66.8	3.6
	5	32.6	1.7	65.6	0.0
	AVG	27.3	2.7	68.8	1.2
PLATES AFTER 9 HOURS CURING	1	26.7	4.5	61.7	7.0
	2	27.3	1.5	67.9	3.4
	3	31.0	1.8	67.2	0.0
	4	30.2	0.8	69.0	0.0
	5	29.0	1.6	65.8	3.5
	AVG	28.8	2.0	66.3	2.8
PLATES AFTER 12/13 HOURS CURING	1	29.5	1.0	69.5	0.0
	2	18.9	2.5	75.3	3.3
	3	32.5	1.5	65.9	0.0
	4	28.8	0.7	67.1	3.3
	5	30.9	1.0	68.1	0.0
	AVG	28.1	1.3	69.2	1.3

FIG. 3A**EFFECT OF 1% TTBLs ON INDUSTRIAL PASTE AND PLATE CURING — 2ND SAMPLE**

CONTROL SAMPLE						
SAMPLE	SAMPLE NO.	PB	A-PBO (TETRA)	B-PBO (ORTHO)	TETRABASIC	TRIBASIC
PASTE AT END OF MIXING		13.8	25.8	5.1	5.1	50.3
	AVG	13.8	25.8	5.1	5.1	50.3
PASTED PLATE AT END OF TUNNEL		15.6	28.2	2.4	10.6	43.3
	AVG	15.6	28.2	2.4	10.6	43.3
FULL RACK IN CHAMBER		16.5	28.5	13.8	0.0	41.2
	AVG	16.5	28.5	13.8	0.0	41.2
AFTER 2 HOURS IN CHAMBER		17.1	27.7	8.0	2.8	44.4
	AVG	17.1	27.7	8.0	2.8	44.4
AFTER 4 HOURS IN CHAMBER		14.6	22.6	3.1	16.2	43.5
	AVG	14.6	22.6	3.1	16.2	43.5
AFTER 6.5 HOURS IN CHAMBER		17.2	24.8	2.4	14.9	40.7
	AVG	17.2	24.8	2.4	14.9	40.7
AFTER 8.6 HOURS IN CHAMBER		18.6	19.8	16.1	3.3	42.2
	AVG	18.6	19.8	16.1	3.3	42.2
AFTER 12.5 HOURS IN CHAMBER		12.0	17.5	4	29	37.4
	AVG	12.0	17.5	4	29	37.4
AFTER 16.5 HOURS IN CHAMBER		3.2	14.5	1.1	59.6	21.6
	AVG	3.2	14.5	1.1	59.6	21.6
AFTER 20.5 HOURS IN CHAMBER		4.7	25	14.85	43.5	25.1
		0	15	1.1	75.3	8.6
	AVG	2.35	20	7.975	59.4	16.85
AFTER 24.5 HOURS IN CHAMBER		0	15	1.1	75.3	8.6
	AVG	0	15	1.1	75.3	8.6
AFTER 28.5 HOURS IN CHAMBER		0	15.4	1.3	76.8	6.6
	AVG	0	15.4	1.3	76.8	6.6

FIG. 3B**EFFECT OF 1% TTBLs ON INDUSTRIAL PASTE AND PLATE CURING — 2ND SAMPLE**

EXPERIMENTAL SAMPLES						
SAMPLE	SAMPLE NO.	PB	A-PBO (TETRA)	B-PBO (ORTHO)	TETRABASIC	TRIBASIC
PASTE AT END OF MIXING		11.4	10.9	2.7	53.2	21.9
		17.8	6.7	0.8	69.1	5.6
		18.7	6.3	0.0	50.0	25.0
	AVG	15.97	8.0	1.2	57.4	17.5
PASTED PLATE AT END OF TUNNEL		8.2	13.0	3.2	54.7	20.9
		16.6	8.6	0.9	57.3	16.6
		19.8	4.7	0.0	67.4	8.1
	AVG	14.87	8.8	1.4	59.8	15.2
FULL RACK IN CHAMBER		8.2	13.5	0.9	62.3	15.2
		18.4	6.0	0.4	56.1	19.1
		18.3	9.2	0.8	66.2	5.5
	AVG	14.97	9.6	0.7	61.5	13.3
AFTER 2 HOURS IN CHAMBER		9	12.8	1.1	77.1	0.0
		12.6	5.7	2.7	70.6	8.5
		19.2	5.8	1.3	64.7	9.0
	AVG	13.60	8.1	1.7	70.8	5.8
AFTER 4 HOURS IN CHAMBER		7.3	6.9	1.0	73.0	11.8
		12.2	4.4	1.4	68.2	13.9
		6.5	9.6	1.0	75.5	7.4
	AVG	8.67	7.0	1.1	72.2	11.0
AFTER 6 HOURS IN CHAMBER		7.8	10.5	1.1	80.2	0.3
		11.9	2.7	1.4	70.0	14.0
		7.3	3.9	2.0	74.1	12.7
	AVG	9	5.7	1.5	74.8	9.0
AFTER 8 HOURS IN CHAMBER		6.4	5.2	1.6	73	13.8
		9.4	7.9	1.6	72.4	8.7
	AVG	7.9	6.55	1.6	72.7	11.25
AFTER 10 HOURS IN CHAMBER		2.4	5.9	2.2	80	9.5
	AVG	2.4	5.9	2.2	80	9.5
AFTER 12 HOURS IN CHAMBER		1.9	3.4	2.4	83.7	8.5
		1.7	10.5	1.7	80.3	5.8
	AVG	1.8	6.95	2.05	82	7.15
AFTER 14 HOURS IN CHAMBER		7.4	8.4	1.2	72.4	10.6
	AVG	7.4	8.4	1.2	72.4	10.6
AFTER 16 HOURS IN CHAMBER		1.2	5.6	2	83.4	7.7
		13.1	8.4	1.3	72.4	4.8
	AVG	7.15	7.00	1.65	77.90	6.25
AFTER 18 HOURS IN CHAMBER		1.3	4.4	3.3	83.7	7.3
		0	7.2	0	86.5	6.4
	AVG	0.65	5.8	1.65	85.1	6.85
AFTER 20 HOURS IN CHAMBER		1.7	6.9	2.3	81.1	7.9
		0.8	10.8	1.9	86.5	0
	AVG	1.05	7.83	1.95	84.23	4.92
AFTER 22 HOURS IN CHAMBER		1.3	4.4	3.3	83.7	7.3
	AVG	1.3	4.4	3.3	83.7	7.3
AFTER 24 HOURS IN CHAMBER		1.5	11.8	2.3	84.5	0
		1.3	8.7	2.4	80.3	7.3
	AVG	1.4	10.25	2.35	82.4	3.65
AFTER 26 HOURS IN CHAMBER		0.7	6.4	2.1	89.7	1.1
	AVG	0.7	6.4	2.1	89.7	1.1
AFTER 28 HOURS IN CHAMBER		0.6	11.5	1.9	86	0
		1.1	6	2.4	89.2	1.4
	AVG	0.85	8.75	2.15	87.6	0.7

EFFECT OF 1% MICRONIZED TTBLs ON INDUSTRIAL PASTE AND PLATE CURING: 1ST SAMPLE

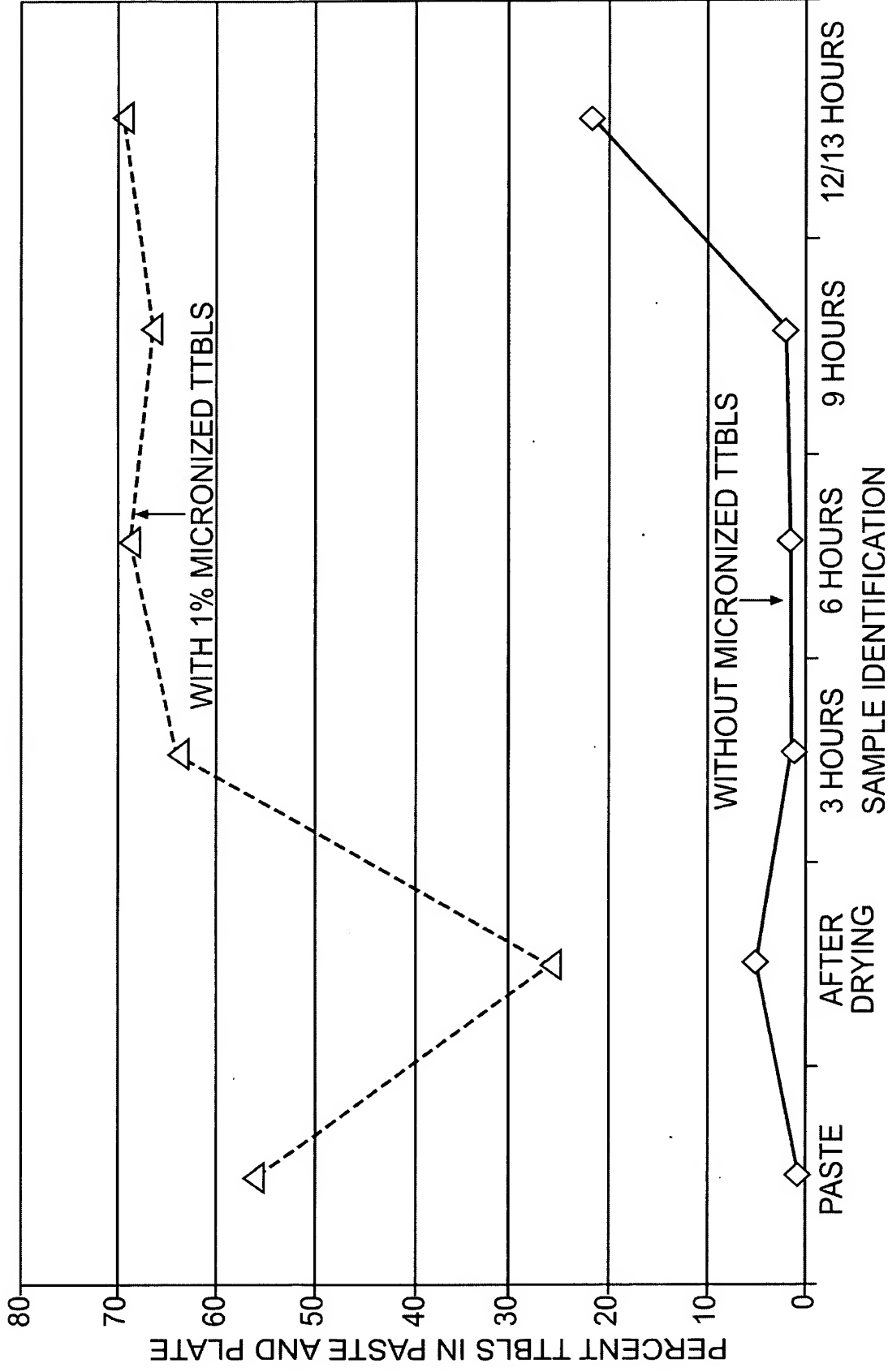


FIG. 4

EFFECT OF 1% MICRONIZED TTBLs ON INDUSTRIAL PASTE AND PLATE CURING: 2ND SAMPLE

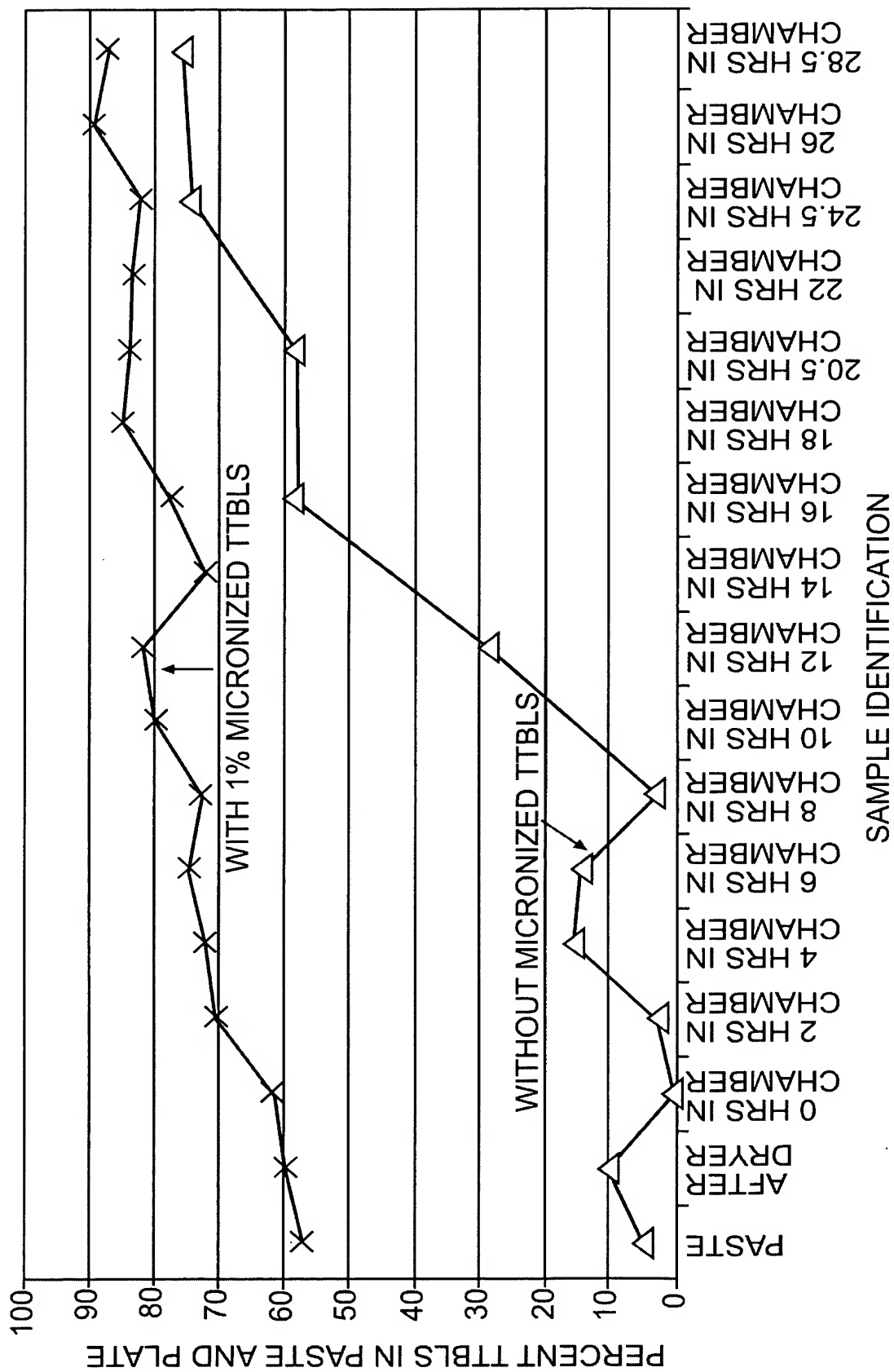


FIG. 5

FIG. 6A EFFECT OF 1% TTBLs ON AUTOMOTIVE PASTE AND PLATE CURING — THIRD SAMPLE

CONTROL SAMPLE						
SAMPLE	TRIAL	PB	A-PBO (TETRA)	B-PBO (ORTHO)	TETRABASIC	TRIBASIC
PASTE AT END OF MIXING	41	9.3	62.3	0.0	0.0	26.6
	40	3.1	72.5	1.4	0.0	23.1
	AVG	6.2	67.4	0.7	0.0	24.9
PASTED PLATE AT END OF TUNNEL DRYER	37	5.4	60.4	0.0	0.0	34.2
	38	18.7	49.3	0.7	0.0	31.3
	39	10.8	58.3	0.5	0.0	30.4
	AVG	11.63	56.0	0.4	0.0	32.0
TWO HOURS AFTER LOADING CURING CHAMBER						
	AVG					
SIX HOURS AFTER LOADING CURING CHAMBER	1		52.0	4.4	1.8	41.8
	2		57.1	9.1	0.0	33.7
	3		59.6	2.4	0.9	37.1
	4		54.4	8.2	1.6	35.8
	5		57.2	7.5	2.7	32.6
	AVG		56.1	6.3	1.4	36.2
8 HOURS AFTER LOADING CURING CHAMBER	12	7	63.1	1.0	0.0	28.8
	17	8.3	60.5	5.5	0.0	26.1
	18	6.8	59.1	5.1	0.0	28.9
	4		60.2	10.4	2.3	27.2
	5		61.6	3.2	1.9	33.3
	AVG	7.4	60.9	5.0	0.8	28.9
18 HOURS AFTER LOADING CURING CHAMBER	21	8.1	57.9	2.8	7.3	24.0
	23	7.5	58.2	3.6	7.9	24.0
	24	7.7	67.7	0.0	0.0	24.6
	AVG	7.8	63.0	1.8	4.0	24.3
24 HOURS AFTER LOADING CURING CHAMBER	29	5.1	44.4	0	35.7	14.8
	30	2.5	62.6	1	12.1	21.8
	AVG	3.8	53.5	0.5	23.9	18.3
END OF CURE	31	0	53.2	0.3	31.96	14.7
	32	0.8	50.7	0	36.2	12.3
	AVG	0.4	51.95	0.15	34.05	13.5

FIG. 6B EFFECT OF 1% TTBLs ON AUTOMOTIVE PASTE AND PLATE CURING — THIRD SAMPLE

EXPERIMENTAL SAMPLE						
SAMPLE	TRIAL	PB	A-PBO (TETRA)	B-PBO (ORTHO)	TETRABASIC	TRIBASIC
PASTE AT END OF MIXING	1	6.7	51.0	0.0	19.8	23.1
	2	14.9	48.3	0.9	12.2	23.7
	AVG	10.8	49.7	0.5	16.0	23.4
PASTED PLATE AT END OF TUNNEL DRYER	3	10.3	49.3	0.5	14.3	25.8
	4	8	47.7	4.1	15.9	24.3
	5	17.2	43.0	0.6	14.3	24.9
	42	13.8		1.2	21.4	22.1
	AVG	12.3	46.7	1.6	16.5	24.3
TWO HOURS AFTER LOADING CURING CHAMBER	6	12.9	43.3	0.6	21.8	21.3
	7	14.4	44.3	4.8	17.8	19.1
	8	12.3	49.2	1.4	18.4	18.8
	9	10.2	45.3	0.4	24.1	20.1
	AVG	12.4	45.5	1.8	20.5	19.8
SIX HOURS AFTER LOADING CURING CHAMBER	10	4.4	25.2	4.4	60.7	5.3
	AVG	4.4	25.2	4.4	60.7	5.3
8 HOURS AFTER LOADING CURING CHAMBER	11	6.5	21.6	1.0	66.3	4.5
	13	1.9	26.8	1.8	64.3	5.2
	14	4	29.0	2.5	56.9	7.6
	15	0	29.6	1.9	62.6	5.8
	16	3.9	24.8	1.9	63.7	5.7
	AVG	4.1	26.4	1.8	62.8	5.8
18 HOURS AFTER LOADING CURING CHAMBER	19	5.6	21.9	2.8	66.1	3.7
	20	5.3	22.3	3.4	64.3	4.3
	22	6.1	24.8	0.9	64.7	3.4
		3.7	25.1	2.3	68.9	0.0
	AVG	5.7	23.53	2.35	66.0	2.9
24 HOURS AFTER LOADING CURING CHAMBER	25	1.3	24.5	0.8	69.9	3.5
	26	1.5	25.5	0	69.3	3.6
	27	2.6	28	1.1	61.8	6.5
	28	2.9	25.8	0	67.4	3.8
	AVG	2.075	25.95	0.475	67.1	4.35
END OF CURE	33	0	27.3	2.5	67.2	3
	34	3	28.4	1.3	64	3.2
	35	0.6	27.6	0	68.6	3.2
	36	0.6	26	3.1	64	6.2
	AVG	1.05	27.325	1.725	65.95	3.9

EFFECT OF 1% MICRONIZED TTBLs ON AUTOMOTIVE PASTE AND PLATE CURING: THIRD SAMPLE

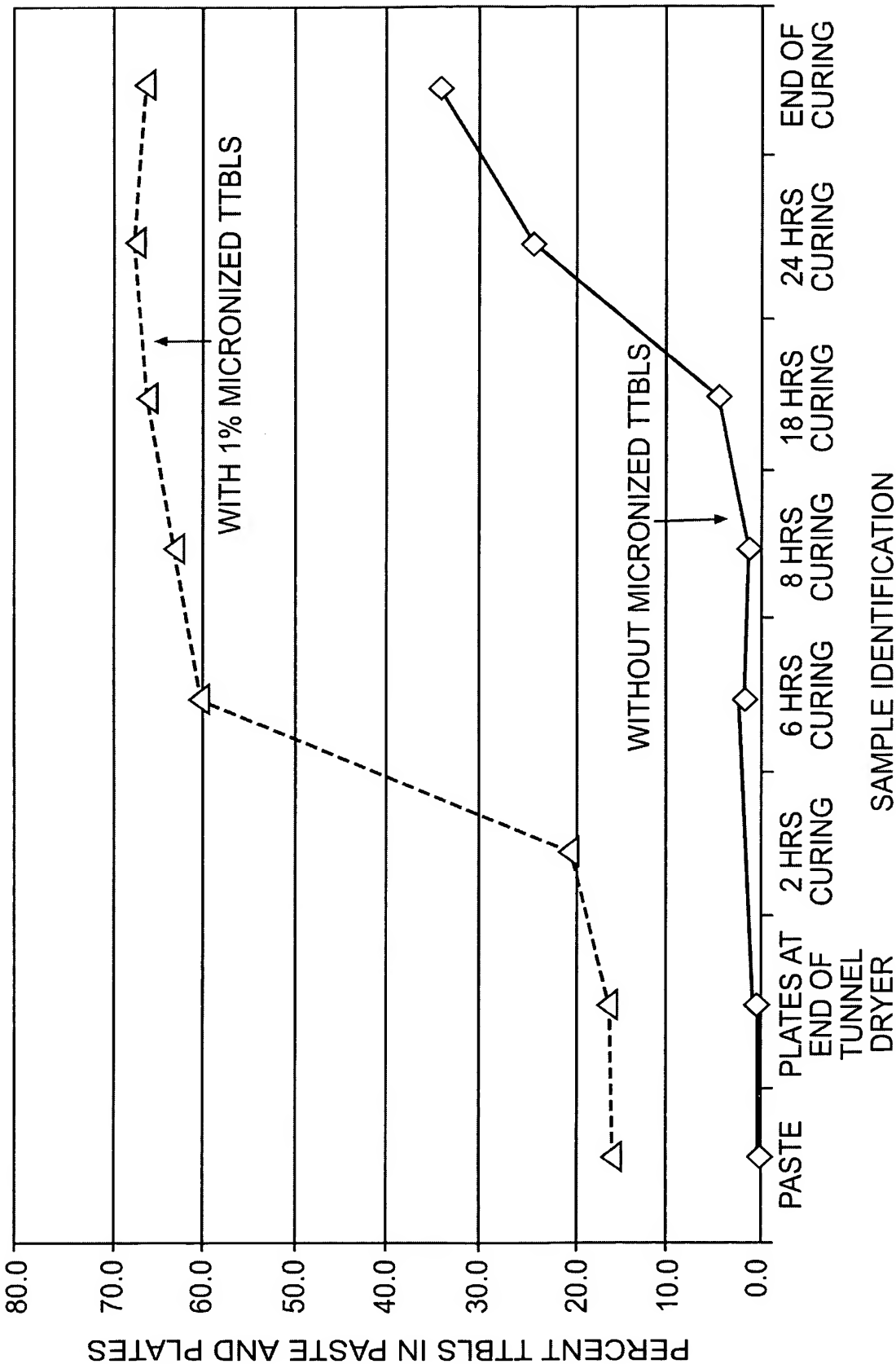


FIG.7

FIG. 8

CONTROL SAMPLES (NO MICRONIZED TTBLs)	TIME (HRS)	PB	A-PBO (TETRA)	B-PBO (ORTHO)	TTBLs	TRBLs
CONTROL END OF TUNNEL	0	7.7	51.5	0	0	41.2
CONTROL END OF TUNNEL	0	6.5	43.4	9.2	0	35.2
CONTROL END OF TUNNEL	0	6	42.2	5.5	0	43.4
AVG	0	6.73	45.57	4.9	0	40.93
CONTROL RACK IN CURING CHAMBER	0.08	0.6	46	8	2.1	43.3
CONTROL RACK IN CURING CHAMBER	0.08	5.1	43.2	8.5	0	43.3
CONTROL RACK IN CURING CHAMBER	0.08	6.1	43.8	7.6	0	42.4
AVG	0.08	3.93	44.33	8.03	0.7	43.00
CONTROL	1.83	3.5	41.4	13.2	2.1	39.8
CONTROL	1.83	4.3	42.9	12.6	0.8	39.3
AVG	1.83	4.46	43.11	10.36	1.45	39.55
CONTROL	2.25	4.3	42.4	12.2	1	40.1
CONTROL	2.25	3.4	45.4	12.4	0	38.7
AVG	2.25	3.85	43.9	12.3	0.5	39.4
CONTROL	3	5.2	46.9	3.2	1.4	43.2
CONTROL	4	4.1	45.9	5.5	6.6	38
CONTROL	4	4	47.8	1.6	0	47.3
AVG	4	4.05	45.5	3.55	3.3	42.65
CONTROL	5	8.3	44	4.2	3.4	40.1
CONTROL	5	2.9	52.5	2.9	0	41.7
AVG	5	5.6	48.25	3.55	1.7	40.9
CONTROL	6	5.8	43	10.9	2.1	38.2
CONTROL	6	5.2	41.8	11.3	3.7	38
AVG	6	5.5	42.4	11.1	2.9	38.1
CONTROL	7	1.8	51.1	10.2	0	36.8
CONTROL	10.75	4.3	47.7	5	1.9	41
CONTROL	14.75	8.2	43.5	2.9	5.4	40.1
CONTROL	16.75	2.1	52.2	5.5	3.8	36.2
CONTROL	22.75	3	52.5	7.4	3.3	33.8
CONTROL	26.75	0	53.8	1.2	3.9	41.2
CONTROL	26.75	3.4	54.5	1.9	0	40.2
AVG	26.75	1.7	54.15	1.55	1.95	40.7
CONTROL	27.5	0	42.4	9.3	8	40.3
CONTROL	27.5	1.4	41.3	5.7	4.9	46.7
AVG	27.5	0.7	41.85	7.5	6.45	43.5
CONTROL	34	0	50.5	0	11.1	38.4
CONTROL	40.5	3.5	51.3	1.7	4.3	36.3
CONTROL	46.5	1.9	46.4	3.6	7.5	40.6
CONTROL	46.5	3.1	34.1	9.2	11.8	42.3

FIG. 9

EXPERIMENTAL SAMPLES, TRIAL 1 (1% MICRONIZED TTBLs)	TIME (HRS)	PB	A -PBO (TETRA)	B-PBO (ORTHO)	TTBLs	TRBLs
EXP. 1 PASTE MIX	0	0.9	35.1	1.2	46.9	15.8
EXP. 1 PASTE MIX	0	0	23.8	2.2	37.2	36.4
AVG	0	0.45	29.45	1.7	42.05	26.1
EXP. 1 PASTE MIX 2	0	2.1	0	4.4	61	32.5
EXP. 1 PASTE MIX 2	0	0	0	5	61.9	33.2
AVG	0	1.05	0	4.7	61.45	32.85
EXP. 1 END OF TUNNEL DRYER	0.33	0	31.7	5.3	34.7	28.2
EXP. 1	1.25	0.4	35.8	3.7	37	23.1
EXP. 1	3	2.1	21.8	2.3	60.4	13.5
EXP. 1	3	0	21.6	2.6	64.2	11.7
AVG	3	1.05	21.7	2.45	62.3	12.6
EXP. 1	4	0	16	3.4	70.3	10.3
EXP. 1	4	1.8	19.1	2.7	68.1	8.3
EXP. 1	4	0.7	19.9	2.1	69.4	7.9
AVG	4	0.83	18.33	2.73	69.27	8.83
EXP. 1	6	0	12.9	1.1	80.1	5.9
EXP. 1	6	0	8.2	7	72.8	12
AVG	6	0	10.55	4.05	76.45	8.95
EXP. 1	9.75	0	5.9	10.3	77.7	6.1
EXP. 1	9.75	5.2	12.4	2.1	79.7	0.6
AVG	9.75	2.6	9.15	6.2	78.7	3.35
EXP. 1	13.75	0	16.3	2.3	77.1	4.3
EXP. 1	17.75	0	16.8	1	78.5	2.8
EXP. 1	17.75	2.4	6.8	8.6	77	5.3
EXP. 1	17.75	0	15.7	2.3	77.7	4.3
AVG	17.75	0.8	13.1	3.67	77.78	4.13
EXP. 1	21.75	1.3	4.6	9.1	78.5	6.4
EXP. 1	25	0.8	7.4	5	79.9	6.8
EXP. 1	29.75	0.5	7.5	0	87.3	4.7
EXP. 1	29.75	0	20.6	2.1	77.3	0
EXP. 1	29.75	0	13.8	2.8	81.8	0
AVG	29.75	0.17	13.97	1.63	82.13	1.57
EXP. 1	35.75	0	19.5	2.5	78.5	0
EXP. 1	35.75	0	17.4	2.9	79.6	0
AVG	35.75	0	18.45	2.7	79.05	0

FIG. 10

EXPERIMENTAL SAMPLES, TRIAL 2 (1% MICRONIZED TTBLs)	TIME (HRS)	PB	A -PBO (TETRA)	B-PBO (ORTHO)	TTBLs	TRBLs
EXP. 2 PASTE MIX	0	0	29.2	0.9	56.7	13.1
EXP. 2 PASTE MIX	0	1.1	28.7	1.3	53.4	15.5
EXP. 2 PASTE MIX	0	0	20.1	1.9	51.6	26.4
AVG	0	0.37	26.00	1.37	53.90	18.33
EXP. 2 END OF TUNNEL DRYER	0.2	1.5	33.7	1.6	40	23.2
EXP. 2 RACK IN CURING CHAMBER	0.33	1.6	32.6	3	41.9	20.9
EXP. 2	1	1.9	28	1.5	51.5	17.2
EXP. 2	2	0	26.8	2.3	60.5	10.4
EXP. 2	2	0	26.6	0	62.2	11.2
AVG	2	0	26.7	1.15	61.35	10.6
EXP. 2	4	0	15.3	3.7	78.7	2.4
EXP. 2	4	2.9	19.7	2.5	65.8	9.1
AVG	4	1.45	17.5	3.1	72.25	5.75
EXP. 2	5	1.7	15	2.9	80.4	0
EXP. 2	5.5	1.7	14.6	3.3	75.8	4.4
EXP. 2	6	0	14.6	3.1	82.3	0
EXP. 2	6	0	15.4	2.9	78.4	6.4
EXP. 2	6	1.2	17.9	2.9	70.6	7.4
AVG	6	0.4	15.97	2.93	76.10	4.60
EXP. 2	9.25	0.8	13.9	3.4	77	4.9
EXP. 2	12.25	0	15.1	3.6	81.3	0
EXP. 2	21.75	0	10.7	2.4	81.1	5.2
EXP. 2	21.75	0	6.2	1.6	87.2	5
AVG	21.75	0	8.45	2	84.15	5.1
EXP. 2	26	0	4	5.8	84.4	5.6
EXP. 2	26	0.8	16.9	2.9	79	0.5
EXP. 2	26	0.5	16.5	3.3	79.7	7
AVG	26	0.43	12.47	4.00	81.03	4.43
EXP. 2	29.25	0	18.7	1.9	79.5	0
EXP. 2	30.25	0	16.8	2	81	0
EXP. 2	35.75	0	18.2	2.9	78.9	0
EXP. 2	35.75	0.5	18.3	2.2	79	0
AVG	35.75	0.25	18.25	2.55	78.95	0
EXP. 2	48.17	0	16.5	3.1	80.4	0

EFFECT OF 1% MICRONIZED TTBLs ON AUTOMOTIVE PASTE AND PLATE CURING: FOURTH AND FIFTH SAMPLE

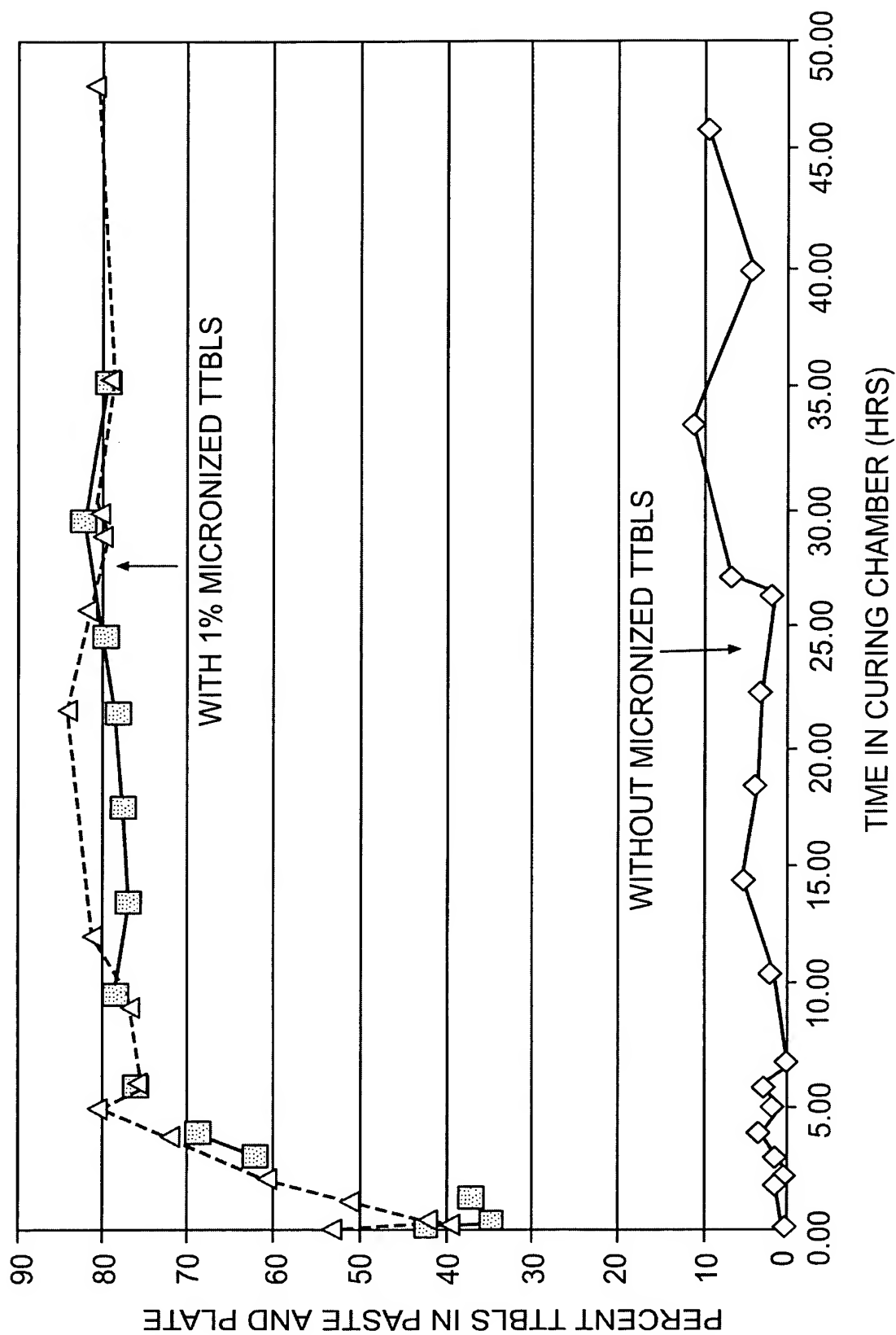


FIG. 11

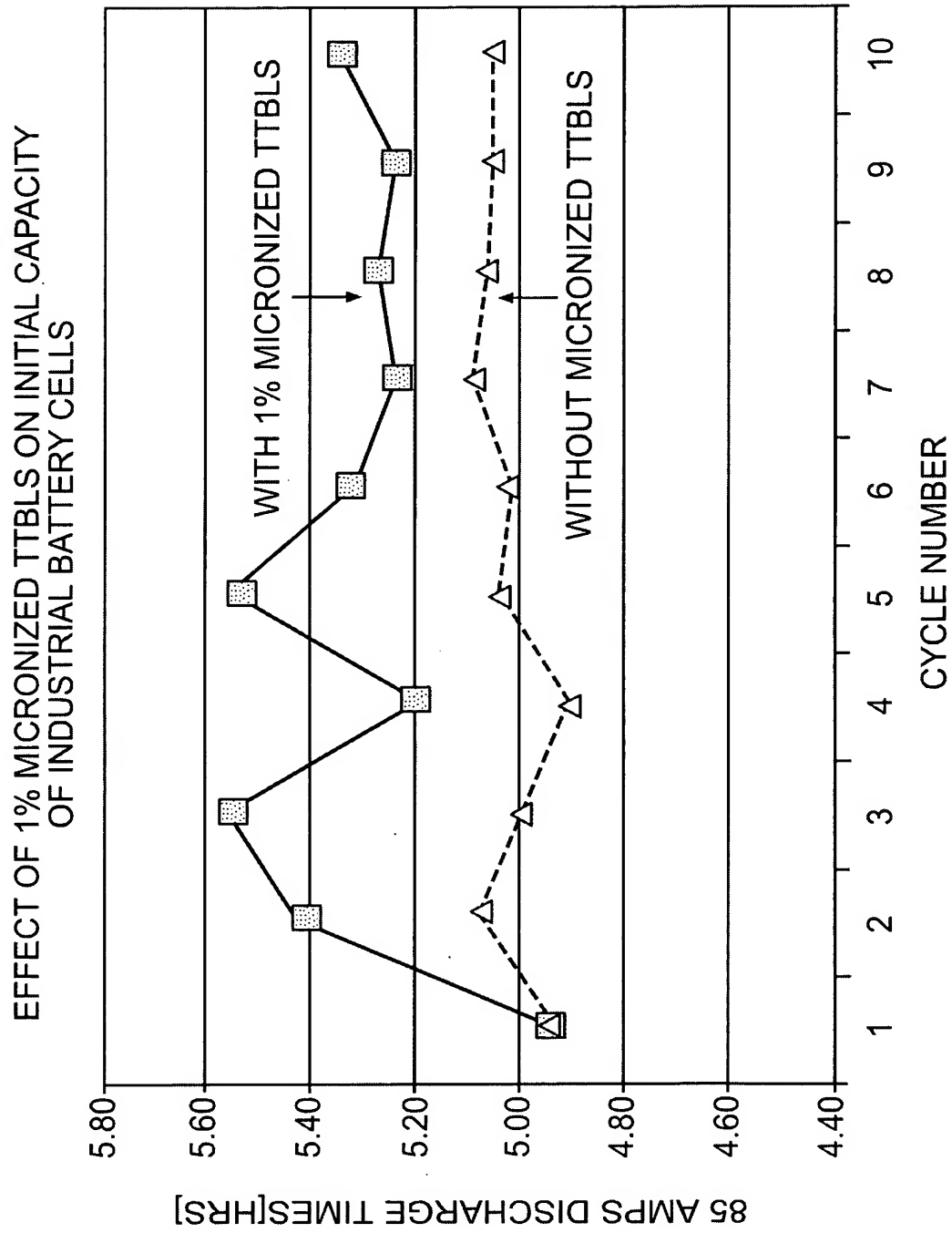


FIG. 12

FIG. 13**EFFECT OF 1% TTBLs ON INDUSTRIAL PASTE AND PLATE CURING**

PASTE MIX NO.	PB [WT.%]	A-PBO [WT.%]	B-PBO [WT.%]	TTBLs [WT.%]	TRBLs [WT.%]
MIX - 1	0.0	27.0	1.3	71.7	0.0
MIX - 2	2.8	15.5	0.9	79.4	1.4
MIX - 3	0.0	16.7	1.7	81.6	0.0
MIX - 4	1.7	21.3	1.3	75.7	0.0
MIX - 5	4.6	23.1	1.6	70.8	0.0
MIX - 6	0.0	29.0	1.1	69.9	0.0
MIX - 7	1.1	25.8	1.7	71.4	0.0
MIX - 8	1.6	25.2	0.8	72.5	0.0
MIX - 9	1.5	29.9	1.1	67.5	0.0
MIX - 10	5.7	28.5	0.8	65.1	0.0
MIX - 11	2.2	30.0	1.7	60.5	5.7
MIX - 12	1.3	27.0	1.7	69.9	0.0
MIX - 13	0.0	25.5	2.5	71.9	0.0
MIX - 14	0.0	26.3	1.8	71.9	0.0

FIG. 14

	1 ST RESERVE CAPACITY (MINUTES)	2 ND RESERVE CAPACITY (MINUTES)	3 RD RESERVE CAPACITY (MINUTES)	1 ST COLD CRANKING AMPS (AMPERES)	2 ND COLD CRANKING AMPS (AMPERES)	3 RD COLD CRANKING AMPS (AMPERES)	AMPERE- HOURS AT 20 HOUR RATE
WITHOUT MICRONIZED TTBLS	125.9	114.8	94.9	699	713	676	57.9
	124.6	116.9	99.6	702	723	676	59.2
	123.7	112.4	94.7	693	710	660	57
AVG	124.7	114.7	96.4	698	715	671	58.02
WITH MICRONIZED TTBLS	126.7	132	126.7	705	746	666	64.7
	127.3	130.5	124.2	705	742	675	63.3
	128.1	131.1	126.7	701	732	685	63.78
AVG	127.4	131.2	125.9	704	740	675	63.92